

# **METHOD FOR PREPARING A DIALKYL CARBONATE, AND ITS USE IN THE PREPARATION OF DIARYL CARBONATES AND POLYCARBONATES**

## **Abstract of Disclosure**

Unexpected corrosion of downstream sections of a dialkyl carbonate manufacturing apparatus has been traced to alkyl chloroformate impurities, which slowly decompose to yield hydrochloric acid. An improved process and apparatus for dialkyl carbonate synthesis reduce corrosion by physically removing or chemically decomposing the alkyl chloroformate impurities within the corrosion-resistant upstream sections of the apparatus.

## Figures

Region	Population (1990)	Population (2000)	Population (2010)	Population (2020)	Population (2030)	Population (2040)	Population (2050)	Population (2060)	Population (2070)	Population (2080)	Population (2090)	Population (2100)
North America	300,000,000	310,000,000	320,000,000	330,000,000	340,000,000	350,000,000	360,000,000	370,000,000	380,000,000	390,000,000	400,000,000	410,000,000
Europe	500,000,000	510,000,000	520,000,000	530,000,000	540,000,000	550,000,000	560,000,000	570,000,000	580,000,000	590,000,000	600,000,000	610,000,000
Asia	3,500,000,000	3,600,000,000	3,700,000,000	3,800,000,000	3,900,000,000	4,000,000,000	4,100,000,000	4,200,000,000	4,300,000,000	4,400,000,000	4,500,000,000	4,600,000,000
Africa	600,000,000	650,000,000	700,000,000	750,000,000	800,000,000	850,000,000	900,000,000	950,000,000	1,000,000,000	1,050,000,000	1,100,000,000	1,150,000,000
Latin America	500,000,000	510,000,000	520,000,000	530,000,000	540,000,000	550,000,000	560,000,000	570,000,000	580,000,000	590,000,000	600,000,000	610,000,000
Oceania	30,000,000	35,000,000	40,000,000	45,000,000	50,000,000	55,000,000	60,000,000	65,000,000	70,000,000	75,000,000	80,000,000	85,000,000
Total	5,900,000,000	6,100,000,000	6,300,000,000	6,500,000,000	6,700,000,000	6,900,000,000	7,100,000,000	7,300,000,000	7,500,000,000	7,700,000,000	7,900,000,000	8,100,000,000